

Table 1: Modifications to the RBR Class for EDOS RBRs
RTM Baseline 3/14/97

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_status	a_verif_method	a_verif_status	text	interpretation text	clarification
EDOS-4.3.1.4#B	9184	mission essential critical	FOS CSMS	performance interface	analysis	un-verified	analysis	un-verified	The EOC shall provide the capability to transfer Operations Management data to EDOS at a rate up to 49 kbps.		

Table 2: Modifications to the RBR Class for AM-1 RBRs
RTM Baseline 3/14/97

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_status	a_verif_method	a_verif_status	text	interpretation text	clarification
AM1-0310#B	9187	mission essential	SDPS_FOS	procedural	inspection	un-verified	inspection	un-verified	The ECS contractor shall provide and the AM-1 spacecraft vendor shall receive training on operations of the FOS.	M&O will support	
AM1-0315#B	9188	mission essential	SDPS_FOS	procedural	inspection	un-verified	inspection	un-verified	The ECS contractor shall provide and the AM-1 instrument teams shall	M&O will support	

									receive training on operations of the IST toolkit.		
AM1-0320#B	9190	mission essential	<u>SDPS FOS</u>	procedural	inspection	un-verified	inspection	un-verified	The AM-1 spacecraft vendor shall provide and the ECS contractor shall receive AM-1 spacecraft operations training.	M&O will support.	
AM1-0330#B	9191	mission essential	<u>SDPS FOS</u>	procedural	inspection	un-verified	inspection	un-verified	The AM-1 instrument teams shall provide and the ECS contractor shall receive AM-1 instrument operations training.	M&O will support.	

Table 3: Modifications to the RBR Class for NI RBRs
RTM Baseline 3/14/97

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpretation text	clarification
NI-0110#B	9192	mission <u>essential</u> <u>critical</u>	FOS CSMS	interface	test	un-verified	test	un-verified	ECS shall have the capability to communicate with the NCC via the EBnet interface.		
NI-0120#B	9194	mission <u>essential</u> <u>critical</u>	FOS	interface	test	un-verified	test	un-verified	ECS shall have the capability to send TDRSS schedule requests to the NCC. These messages will be defined in the ICD Between the GSFC MOCs and the NCCDS .		
NI-0130#B	9195	mission <u>essential</u> <u>critical</u>	FOS	interface	demo	un-verified	demo	un-verified	ECS shall have the capability to receive schedule result messages from the NCC. These messages will be defined in the ICD		

									Between the GSFC MOCs and the NCCDS.		
NI-0140#B	9197	mission <u>essential</u> critical	FOS	interface	demo	un-verified	demo	un-verified	ECS shall have the capability to receive TDRSS schedule messages from the NCC. These messages will be defined in the ICD Between the GSFC MOCs and the NCCDS.		
NI-0150#B	9199	mission <u>essential</u> critical	FOS	interface	test	un-verified	test	un-verified	ECS shall have the capability to send other non-telemetry data messages to the NCC, which includes at a minimum status and reconfiguration messages. These messages will be defined in the ICD Between the		

									GSFC MOCs and the NCCDS.		
NI-0160#B	9200	mission <u>essential</u> critical	FOS	interface	test	un-verified	test	un-verified	ECS shall have the capability to receive other non-telemetry data messages from the NCC, which includes at a minimum status and reconfiguration messages. These messages will be defined in the ICD Between the GSFC MOCs and the NCCDS.		
NI-0170#B	9201	mission <u>essential</u> critical	FOS	interface	demo	un-verified	demo	un-verified	ECS shall have the capability to communicate with the NCC to coordinate support from GN, DSN, and WOTS for EOS missions.		

									This interface is defined in the Operations Interface Procedures Between the Network Control Center (NCC) and the Spaceflight Tracking and Data Network Users.		
NI-0310#B	9203	mission <u>essential</u> <u>critical</u>	FOS CSMS	interface	test	un-verified	test	un-verified	ECS shall have the capability to communicate with the FDF via the EBnet interface		
NI-0340-b#B	9205	mission <u>essential</u> <u>critical</u>	FOS	interface	demo	un-verified	demo	un-verified	ECS shall have the capability to receive planning and scheduling information for the EOS spacecraft and instruments from the FDF (AM-1 mission-specific products). Mission-specific		

									requirements for FDF support of EOS missions will be documented in the EOS mission-level Detailed Mission Requirements documents and FDF-developed ICDs.		
NI-0360#B	9208	missioncritical	SDPS	interface	test	un-verified	test	un-verified	ECS shall have the capability to send a notification of orbit or attitude quality checks and request updated (refined/repair ed) orbit or attitude data from the FDF when necessary. Mission-specific requirements for FDF support of EOS missions will be documented in		<u>IRD needs to be modified to remove reference to "attitude". CCR 505-01-41-100, CH21 only addresses "orbit quality checks".</u> <u>IRD needs to be modified</u>

									the EOS mission-level Detailed Mission Requirements documents and FDF-developed ICDs.		
NI-0365#B	9209	missioncritical	SDPS	interface	test	un-verified	test	un-verified	ECS shall have the capability to receive from FDF a notification of orbit or attitude quality checks. Mission-specific requirements for FDF support of EOS missions will be documented in the EOS mission-level Detailed Mission Requirements documents and FDF-developed ICDs.		<u>IRD needs to be changed to be consistent with CCR 505-01-41-100, CH21, i.e. reworded as follows: "ECS shall have the capability to receive from FDF orbit and attitude quality checking software and parameters. Mission-specific requirements for FDF support of EOS missions will be documented in the EOS mission-level Detailed Mission Requirements documents and FDF-developed ICDs.</u>
NI-0440#B	9211	missioncritical	CSMS	interface	test	un-verified	test	un-verified	ECS shall have the		<u>NOLAN no longer applies to ECS. The</u>

									capability to receive information regarding fault status and estimated time to repair or resolve NOLAN faults that may affect the quality of NOLAN services between ECS and its users.		<u>NOLAN functions are now being performed via Ebnet.</u>
NI-0450#B	9212	missioncritical	CSMS	interface	test	un-verified	test	un-verified	ECS shall have the capability to receive periodic summary information about faults that may have affected the quality of NOLAN services between ECS and its users.		<u>NOLAN no longer applies to ECS. The NOLAN functions are now being performed via Ebnet.</u>
NI-0470#B	9215	missioncritical	CSMS	interface	test	un-verified	test	un-verified	ECS shall have the capability to receive notifications of security breaches at NOLAN sites		<u>NOLAN no longer applies to ECS. The NOLAN functions are now being performed via Ebnet.</u>

									or within the NOLAN network that could potentially affect ECS sites.		
NI-0480#B	9216	missioncritical	CSMS	interface	test	un-verified	test	un-verified	ECS shall have the capability to send to NOLAN notifications of security breaches at ECS facilities that could affect NOLAN and other EOSDIS sites.		<u>NOLAN no longer applies to ECS. The NOLAN functions are now being performed via Ebnet.</u>
NI-1000#B	9217	missionessentialcritical	FOS SDPS CSMS	interface	analysis	un-verified	analysis	un-verified	ECS functions shall have an operational availability (computed as defined in the Functional and Performance Requirements Specification for the ECS) of 0.96 at a minimum and a Mean Down Time (MDT)		

									of four (4) hours or less, unless otherwise specified.		
NI-1030#B	9219	missione ssential ritical	FOS	interface	analysis	un-verified	analysis	un-verified	The ECS FOS shall have an operational availability of 0.99925 at a minimum and a MDT of five (5) minutes or less for non-critical real time functions.		

Table 4: RBR to L4 Additions
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RBR ID	L4 ID
<u>EDOS-4.1.3.1#B</u>	<u>S-INS-00580</u>
<u>EDOS-4.1.3.1#B</u>	<u>S-INS-00600</u>

TABLE 5 : RBR to L4 Deletions
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RBR ID	L4 ID
<u>EDOS-4.1.3.1#B</u>	<u>S-DPS-30910</u>

Table 6: Information Table: These changes have already been made in CCR # 97-0352A
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RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpretation text	clarification
NI-0330#B	9204	mission essential critical	FOS	interface	test	un-verified	test	un-verified	ECS shall have the capability to send a subset of EOS spacecraft telemetry stream to the FDF, which includes the following: a. Attitude sensor data b. Navigation telemetry data c. Spacecraft maneuver telemetry data Mission-specific requirements for FDF support of EOS missions will be documented in the EOS mission-level Detailed Mission Requirements documents and FDF-developed	AM-1 mission only.	

									ICDs.		
NI-0350#B	9206	mission critical <u>essential</u>	FOS	interface	test	un-verified	test	un-verified	ECS shall have the capability to receive parameters necessary for spacecraft command data generation from the FDF, including the following: a. Navigational operations parameters b. Spacecraft maneuver parameters Mission-specific requirements for FDF support of EOS missions will be documented in the EOS mission-level Detailed Mission Requirements documents and FDF-developed ICDs.	AM-1 mission only.	